

# BIOS Release Notes Form

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<b>Product Name</b>	<b>X13DEM</b>
<b>Release Version</b>	<b>2.3 SPS: 6.1.4.47</b>
<b>Build Date</b>	<b>06/04/2024</b>
<b>Previous Version</b>	<b>2.1a SPS: 6.1.4.5</b>
<b>Update Category</b>	<b>Recommended</b>
<b>Dependencies</b>	<b>None</b>
<b>Important Notes</b>	<b>None</b>
<b>Enhancements</b>	<ol style="list-style-type: none"><li><b>Updated AMI label to 5.32_EagleStreamCrb_0ACOR_103 uPLR1 OOB.</b></li><li><b>Fixed the issue where the MAC address in tag V4 and V5 was incorrect when installing the Broadcom quad-port network adapter(BCM957504-N425G).</b></li><li><b>Patch for Mellanox InfiniBand Controller MAC Address retrieval issue.</b></li><li><b>Updated AMITSE module for AMI SA50216.</b></li><li><b>Updated AMITSE module for AMI SA50230.</b></li><li><b>Updated EDK2 NetworkPkg for AMI SA50218.</b></li><li><b>Updated BIOS revision to 2.3.</b></li><li><b>Added FixedBootOrder Group boot device default value.</b></li><li><b>Updated the SUM OOB module to SMCOOBV2.00.22 to support Redfish replacing the display name feature.</b></li><li><b>Fixed how the BIOS Setup could not set stateful mode of IPv6.</b></li><li><b>Read CPU CAP ID to get VROC key activation status and decide on VMD auto mode.</b></li><li><b>Enabled "Disable BIOS Done" in Factory Mode.</b></li></ol>

	<p>13. Implemented Workload Profile function.</p> <p>14. Revised the error message for MINOR_ERR_INVALID_TOPOLOGY.</p> <p>15. BIOS only reported network device VPD.</p> <p>16. Exposed "Directory Mode Enable" and add X-AMI.</p> <p>17. Set Chassis type in SMBIOS to default (0x11) when Chassis type from FRU was 0x00 or 0xFF.</p> <p>18. Removed the report from the unused boot device group in the Redfish BBS.</p> <p>19. Added X-AMI for "Disable Bitmap" under "CPU1 Core Disable Bitmap" and "CPU2 Core Disable Bitmap" page.</p> <p>20. [SmcSecureBoot] Updated Supermicro Secure Boot Main setup items X-AMI ID to match the Mapping Language Golden Sample.</p> <p>21. Improved SmcVPD third-party LAN card's function.</p> <p>22. Updated Seamless MCU capsule revision to 2.2 for EMR 2.3 BIOS (UPLR1 OOB).</p> <p>23. Updated the options for the "BMC LAN Selection."</p> <p>24. Modified "Virtual NUMA" string.</p> <p>25. Added feature that enables VMD when Intel On Demand is activated for EMR CPU.</p>
New features	None
Fixes	<ol style="list-style-type: none"> <li>1. Fixed the system hang during IPv4 HTTP boot.</li> <li>2. Fixed the SUM GetBiosCfg command failed issue.</li> <li>3. Fixed how the X710 FW information did not show correctly in BIOS setup.</li> <li>4. Fixed how CX6 LAN card's VPD data couldn't fill in type 40.</li> <li>5. Fixed how EFI OS boot order was not first, if the issue was BMC changing the boot order (one time), then install EFI OS by PXE.</li> </ol>

	<b>6. Overwrote AmiPcdChassisType to sync SYS_CHASSIS_TYPE_1 setting.</b>
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*Release Notes from Previous Release(s)*

**2.1a SPS: 6.1.4.5 (03/20/2024)**

1. Only applied HW VRM patch for 1.10 MB.
2. Updated BIOS revision to 2.1a.

**2.1 SPS: 6.1.4.5 (8/25/2023)**

1. Updated AMI label to 5.32\_EagleStreamCrb\_OACOR\_099\_Beta for BKC WW47 EMR PV candidate.
2. Updated Eagle Stream Refresh Emerald Rapids Unified Patch Engineering Release - 2023 WW47.
3. Updated VROC SATA/sSATA/tSATA/VMD EFI driver to VROC PreOS v8.5.0.1096 PC.
4. Added VROC on Demand driver support.
5. Updated the SUM OOB module to SMCOOBV2.00.21 to support Redfish to replace the display name feature.
6. Used PCIe ASPM Support (Global) to control ASPM(PCH), PCI-E ASPM Support(IIO), Native ASPM(ACPI) option.
7. Hid "XPT Prefetch" in EMR CPU.
8. Supported VPD data of Broadcom Network Adapter.
9. Greyed out "Preferred DNS server IP" and "Alternative DNS server IP".
10. Implemented BIOS setup keyword search function.
11. Fixed HostInterface On/Off stress test that will drop in UEFI Shell intermittently.
12. Changed the FixedBootOrder BBS Group define start from COMMNE00 not COMMNE01.
13. Updated secure boot KEK/DB to add new Microsoft certificate.
14. Added X-AMI for "Disable Excluding Mem Below 1MB In CMR" and "TME-MT/TDX Key Split", and updated the strings to Camel-Case format.
15. Exposed "Page Policy".
16. Updated built-in SuperDiag to fixed issues, based on GIT\_c4cc82130966861f501de64bd6bc4472ed05b2a5.
17. Default disabled OOB send replace DisplayName feature to avoid the SUM OOB test fail problem.
18. Made sure to assign a unique ID for NVME device.
19. Cleared RTC clear flag and IPMI RTC clear flag individually to prevent "Setup default has been loaded" still being displayed during next boot.
20. Resolved how IPV6 "Preferred DNS server IP" and IPV6 "Alternative DNS server IP" were not being displayed correctly on BIOS setup.
21. Fixed Secure erase malfunction.
22. Resolved the "BMC LAN Selection" setup item differing from the "LAN selection interface" under BMC WEB GUI.
23. Resolved how even if the 'Ipv6' is disabled in the BMC WEB GUI, the IPv6 address was still being displayed during the EarlyVideo stage.
24. Fixed when installing AOC-S25GC-12S on RSC-H-66G5L slot1, the network driver will show "Disconnect" under the BIOS page issue.

**1.4 SPS: 6.0.5.46 (8/25/2023)**

1. Updated AMI label to 5.31\_EagleStreamCrb\_EMR\_OACOR\_087.
2. Fixing the information of "Available Bitmap:" cannot be found in the BIOS Cfg file.

3. Updated BIOS revision to 1.4.
4. Updated Intel Server Platform Services SPS\_E5\_6.0.5.046 PLR3 HF for Eagle Stream Server Update 782193 Intel Server Platform Services SPS\_E5\_6.0.5.046 PLR3 HF for Eagle Stream Server.
5. Modified ME version strings, removed the "Manufacturer ID" string.
6. Fixed the missing end tag (0x78) of VPD data when the VPD length is multiple of 4. (0 base)
7. Expose the SATA1 menu for the PCH SATA M.2 setting to fix cannot enable RAID mode for the SATA M.2 device problem.
8. Memory speed should be MT/s, not MHz.
9. Fixed NVMe hot-plug malfunction on SYS-121H-TNR's last 8 ports issue.

### **1.3 SPS: 6.0.4.70 (6/1/2023)**

1. Updated Intel BKC SPR 2023\_WW13 PLR1, EMR 2023\_WW19, Intel RC Version 101.D66.
2. Enhanced the solution for the error/warning message from dmidecode after a modification by AMIDE.
3. Removed first capital letter S from Micron type 17 serial number.
4. Updated options of Enhanced PPR from Disabled/Once/Persistent to Disable/Enable/Persistent.
5. Added support for 3'rd lan card VPD.(Mellanox)
6. Exported PCIe leaky bucket related items and add X-AMI ID.
7. Support SYS-121H-TNR with one BPN only sku.
8. Kept HBM SMBIOS type 17 structures.
9. Set PPIN default value to Unlock.
10. Rolled back GPNV module to fix type 15 disappear.
11. Added SuperDiag Launcher driver.

### **1.1 (1/20/2023)**

1. Updated AMI label to 5.29\_EagleStreamCrb\_0AC0R\_071\_BETA.
2. Updated SPS 6.0.4.25.
3. Updated 806F8 Intel(R) Processor SPR E-Stepping microcode 2B000161 and HBM B-Stepping microcode 2C000120.
4. Updated BIOS revision to 1.1.
5. Exposed "CXL Security Level" and "CXL Header Bypass" for CXL.
6. Enhanced memory map out feature.

### **1.0a (11/2/2022)**

1. Updated Intel BKC 2022 WW43 (KIT #750947, Intel RC Version 90.D03).
2. Updated BIOS revision to 1.0a.
3. Supports SYS-221HE-FTNR system configuration.
4. Set PCIe PLL SSC enabled value from 0.3% to 0.5%.
5. Fixed AFU return error so it will stop running when using the /N or /clnevnllog command.
6. Followed Intel WW36 MOW to disable Pre-GO\_S1 setting.
7. Followed BMC\_Network\_AOC\_Monitoring\_Spec\_v2.2 to discard the action to send AIOM/AOC IO Module LAN MAC to BMC.
8. Updated SPS 6.0.3.271 2S PC Hotfix Release for Eaglestream Platforms
9. Added new feature to set BIOS\_EXIT\_UBOOT/BIOS\_BOOT\_OK at end of POST.
10. Fixed SST function, not work issue.
11. Fixed the memory serial number of SMBIOS type 17, did not match memory DIMM bar code.

### **1.0**

1. First release.

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*Product Manager*

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*Date*